Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-06-26-02**

Date: 30-06-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Vinayakanagara 4th to 6th Cross road Surroundings in ward No. 11 Kuvempunagara.

Agency : Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010

Customer's Reference : BBMP/EE/BTP/WO/07/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-18

Sample ID No : 2018-06-26-02 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 28-06-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.89	–
2	Finess by Air permeablity method (m^2/kg,Min)	288.8	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore.-97

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-06-26-02** **Date: 05-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Vinayakanagara 4th to 6th Cross road Surroundings in ward No. 11 Kuvempunagara.
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010
Customer's Reference	:	BBMP/EE/BTP/WO/07/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-18
Sample ID No	:	2018-06-26-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	28-06-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-26-02** **Date: 29-06-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Vinayakanagara 4th to 6th Cross road Surroundings in ward No. 11 Kuvempunagara.
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010
Customer's Reference	:	BBMP/EE/BTP/WO/07/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-06-18
Sample ID No	:	2018-06-26-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-06-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1673	1673	11.2	88.8	90-100
3	20 mm	1290	2963	19.8	80.2	30-70
4	10 mm	1470	4433	29.6	70.4	10-35
5	4.75 mm	430	4863	32.4	67.6	0-5
6	Pan	137	5000	33.3	67	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-26-02**

Date: 29-06-18

Sample ID No : 2018-06-26-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.2	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.32	_

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-26-02** **Date: 29-06-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Vinayakanagara 4th to 6th Cross road Surroundings in ward No. 11 Kuvempunagara.
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010
Customer Reference	:	BBMP/EE/BTP/WO/07/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-18
Sample ID No	:	2018-06-26-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-06-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-26-02** **Date: 29-06-18**

Sample ID No : 2018-06-26-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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TEST REPORT OF FINE AGGREGATE

Format No: CP/TF/01

Date: 29-06-18

Lab ID	:	**CP-2018-06-26-02**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Vinayakanagara 4th to 6th Cross road Surroundings in ward No. 11 Kuvempunagara.
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010
Customer's Reference	:	BBMP/EE/BTP/WO/07/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-18
Sample ID No	:	2018-06-26-02 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	26-06-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	94	94	9.4	90.6	90-100	90-100	90-100	95-100
3	2.36 mm	140	234	23.4	76.6	60-95	75-100	85-100	95-100
4	1.18 mm	165	399	39.9	60.1	30-70	55-90	75-100	90-100
5	600 micron	200	599	59.9	40.1	15-34	35-59	60-79	80-100
6	300 micron	280	879	87.9	12.1	5-20	8-30	12-40	15-50
7	150 micron	66	945	94.5	5.5	0-10	0-10	0-10	0-15
8	Pan	55	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-26-02**

Sample ID No : 2018-06-26-02 /03

Date: 29-06-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.28	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	5.40	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-07-12-01**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Vinayakanagara 4th to 6th Cross road Surroundings in ward No. 11 Kuvempunagara.
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010
Customer's Reference	:	BBMP/EE/BTP/WO/07/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-18
Sample ID No	:	2018-07-12-01 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	12-07-18

Date: 13-07-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	531	642	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.611	549	659	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.881	557	662	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID	:	**CP-2018-06-26-02**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. **Date: 30-06-18**
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Vinayakanagara 4th to 6th Cross road Surroundings in ward No. 11 Kuvempunagara.
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010
Customer's Reference	:	BBMP/EE/BTP/WO/07/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-18
Sample ID No	:	2018-06-26-02 /05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	26/06/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.18	100.51	1.385	4438	89.5	20.2	18.8	23.4
2	Cover Slab-2	75.22	100.52	1.342	4443	82.7	18.6	17.3	21.6
3	Cover Slab-3	75.23	100.49	1.385	4444	85.3	19.2	17.9	22.3

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2018-07-16-01**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Vinayakanagara 4th to 6th Cross road Surroundings in ward No. 11 Kuvempunagara.
Agency	:	Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010
Customer's Reference	:	BBMP/EE/BTP/WO/07/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-01 /01
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/07/2018

Date: 20/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	13/07/2018	20/07/2018	150.26 X 150.30 X 150.24	22584	8.298	393.0	17.4	17.5
2	RMC	M20	13/07/2018	20/07/2018	150.32 X 150.36 X 150.40	22602	8.331	404.6	17.9	
3	RMC	M20	13/07/2018	20/07/2018	150.23 X 150.35 X 150.30	22587	8.382	388.5	17.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-16-01**

Date: 20/07/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Vinayakanagara 4th to 6th Cross road Surroundings in ward No. 11 Kuvempunagara.

Agency : Karnataka Rural Infrastructure Development Limited(KRIDL),#280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangaolre-560010

Customer's Reference : BBMP/EE/BTP/WO/07/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-18

Sample ID No : 2018-07-16-01 /03

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	13/07/2018	20/07/2018	151.80 X 150.54 X 149.06	22852	8.356	429.4	18.8	18.0
2	RMC	M20	13/07/2018	20/07/2018	151.09 X 151.61 X 151.71	22907	8.369	394.8	17.2	
3	RMC	M20	13/07/2018	20/07/2018	151.74 X 150.89 X 151.38	22896	8.303	410.1	17.9	

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